



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No: CTCE/BBMP/W.No.12/KMR/CSR-05/030d/CEMENT/2016-17

Date: 05.05.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* AGENCY	:	Mr. K.M. Ravi No. 74, 3 rd Cross, 2 nd Stage, Nagarabhavi, Bangalore.
* NAME OF THE WORK	:	Providing improvements to roads & drains at Medarahalli Pillappa Layout & R.R. Layout in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/DD/VO/407/2014-15 Dated: 31.03.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	04.05.2016
PERIOD OF TESTING	:	04.05.2016 to 05.05.2016



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

VISHWANATH .C
Quality Manager



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Job No.: CTCE/BBMP/W.No.12/KMR/CSR-05/030d/SAND Gradation/2016-17

: 05.05.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* **Customer** : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* **Agency** : Mr. K.M. Ravi
No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.

* **Name of Work** : Providing improvements to roads & drains at Medarahalli Pillappa Layout & R.R. Layout in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/407/2014-15 Dated: 31.03.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 04.05.2016

Date of Testing : 05.05.2016



Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.66	90-100	90-100	90-100	95-100
2.36	77.73	60-95	75-100	85-100	95-100
1.18	49.87	30-70	55-90	75-100	90-100
600 Micron	19.32	15-34	35-59	60-79	80-100
300 Micron	8.09	5-20	8-30	12-40	15-50
150 Micron	2.61	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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VISHWANATH .C
Quality Manager



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Job No.: CTCE/BBMP/W.No.12/KMR/STEEL/2016-17

13.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Mr. K.M. Ravi
No. 74, 3rd Cross, 2nd Stage, Nagarabhavi, Bangalore.

Name of the Work : Providing improvements to roads & drains at Medarahalli Pillappa Layout & R.R. Layout in Ward No. 12 in Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/407/2014-15 Dated: 31.03.2015

Date of Test : 13.05.2016

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	8	0.40	515	553	13.05	O.K	O.K

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M/s. Civil-Tech Consultants & Engineers
23/14, 7th Cross, 3rd Stage,
4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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13.05.2016

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			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	517	559	13.20	O.K	O.K

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M/s. Civil-Tech Consultants & Engineers
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4th Block, Shakthiganapathinagara,
Basaveshwaranagar,
Bangalore-560079.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com



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			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	12	0.89	519	563	13.35	O.K	O.K

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4th Block, Shakthiganapathinagara,
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Bangalore-560079,

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